

COMISION NACIONAL DE ENERGIA

RURAL ELECTRIFICATION PROGRAM

PROPOSAL FOR INCLUSION IN THE PRIVATIZACION PROCESS OF ENEL

Managua, Nicaragua January, 2000



COMISION NACIONAL DE ENERGIA

LEGAL FRAMEWORK LEY DE LA INDUSTRIA ELECTRICA

Law No. 272

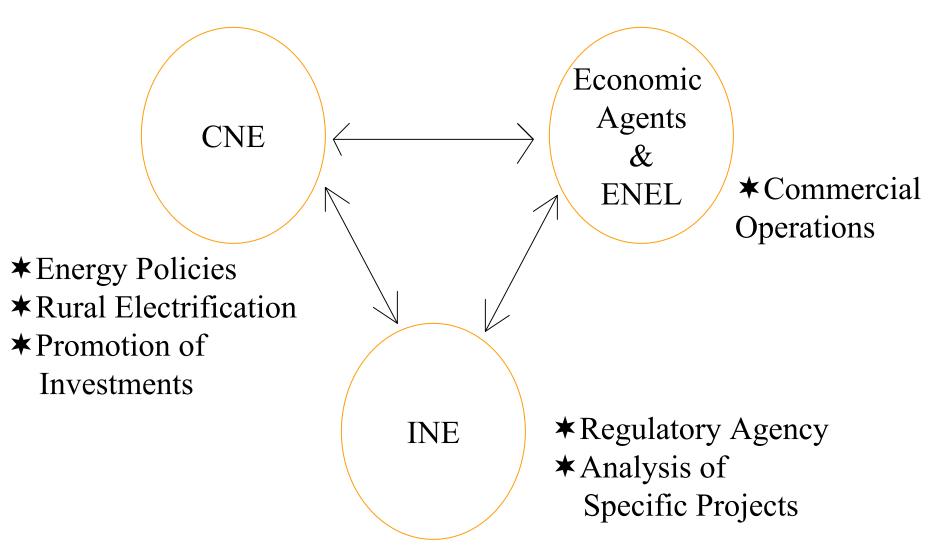
Chapter III

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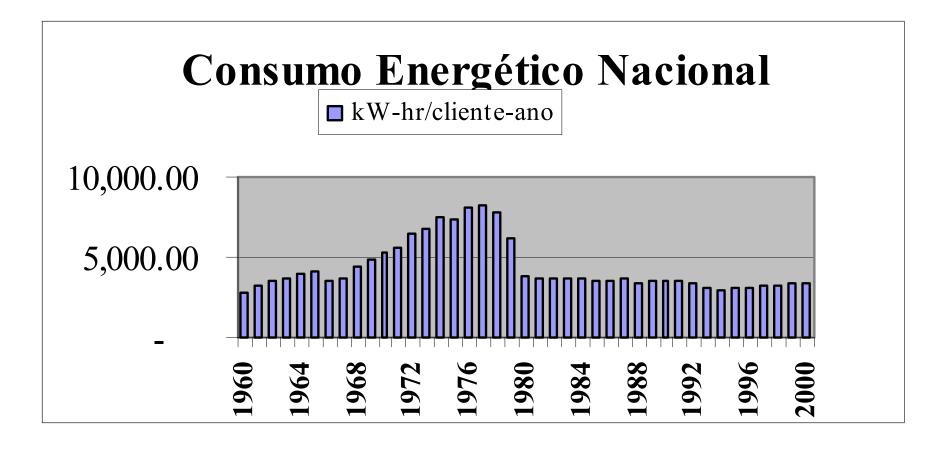




BACKGROUND

- Availability, accuracy, and consistency of the existing information
- Desire and need of the electric service
- Willingness to pay
- Cost estimates of the required investments
- Timeframe
- Development strategies
- Context of ENEL privatization







PLANTAS SIN

			Capacidad		Capacidad Acumulada	
<u> Año</u>	<u>Planta</u>	<u>Tipo</u>	Nominal	Efectiva	<u>Nominal</u>	<u>Efectiva</u>
			(MW)	(MW)	(MW)	(MW)
1960	Managua	TV	57.50	47.00	57.50	47.00
1964	Centroamerica	HE	50.00	48.00	107.50	95.00
1967	Chinandega	TG	15.00	14.00	122.50	109.00
1971	Santa Barbara	HE	50.00	46.00	172.50	155.00
1976	Nicaragua	TV	100.00	100.00	272.50	255.00
1983	Momotombo	GE	70.00	14.00	342.50	269.00
1990	Guabule & Las Canoas	HE	3.40	3.40	345.90	272.40
1991	Puerto Cabezas & Ometepe	DO	6.20	3.40	352.10	275.80
1992	Jose Dolores Estrada	TG	63.00	62.00	415.10	337.80
1997	AMFELS	DO	36.00	35.00	451.10	372.80
1998	Corn Island	DO	0.80	0.80	451.90	373.60
1999	Coastal & ENRON	DO	126.70	102,20	578.60	475.80



RESULTS

- Geographic Information System BID & PREEICA
 - Rural communities referenced to national coordinates and electrical infrastructure
 - Socio-economic Information
- 59.65 % of population served on Pacific and Central
 - 26 % rural
 - 88 % urban
- 99.4 % of surveyed population need/want electric service
- Consumption per user estimated between 30 and 80 kW-hr/mo
- Willingness to pay US \$5 US \$8 per month
- Plans and Development Policy of Rural Electrification



CONCLUSIONS

- Short-term development strategy within the privatization of ENEL
- Subsidy of initial investment
- Integrate social and economic rural development
- Rural Electricity rates differentiated, preferencial and stables
- Quality Standards of the rural service
- Social, economic and political impact of the proposed projects
- Action and development plan for rural electrification



Current

463,554 users **2,982,500** population **59.65%** coverage

Changes in the area and accumulated statistics

5 Kms

160,031 users **1,024,198** population

US \$82 MM

US \$512/user

41,170 users

271,722 population

US \$66 MM

US \$1,603/user

623,585 users

4,006,698 population

77.80 % coverage

US \$ 82 MM

5 Kms

664,755 users

4,278,420 population

80.66 % coverage

US \$148 MM

10 or more **Kms**

33,504 users

220,500 population

US \$59 MM

US \$1,761/user

698,259 users

4,546,025 total

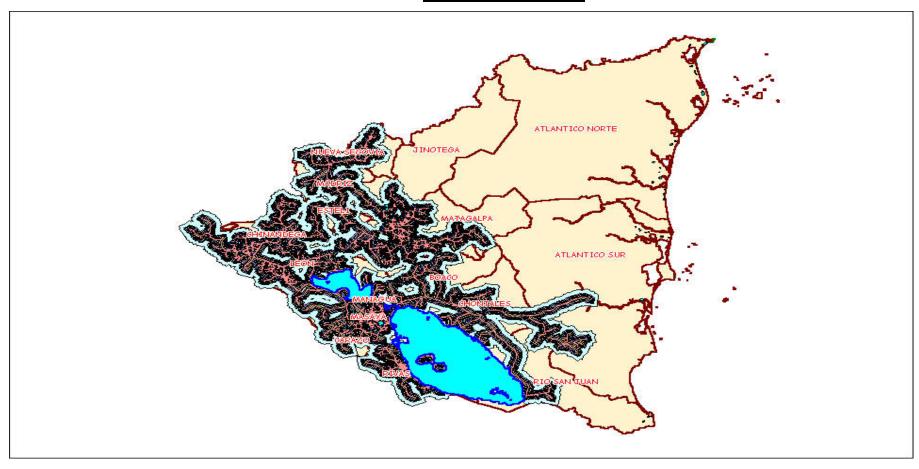
population

90.54 % coverage

US \$207 MM



AREAS TO SERVE 2000-2010





PROPOSED ACTION PLAN

- Allocate proceeds resulting from the privatization of ENEL for the implementation of a RE project in a timeframe of 5-10 years
- Create a Trust Fund or another alternative to secure the use of the funds over the duration of the plan according with the Investment Bankers
- Incorporate these decisions to the contents of the "road show"
- Include obligations of the future distributors in the privatization bid documents
- For the remaining areas, continue with the analysis of isolated systems, new technologies, financing strategies, and operation and ownership options
- Focus the privatization of ENEL on the need of "privatizar para electrificar"
- Seek the support of the multilateral agencies



Coordination of the Plan

